## We claim:

1. A fuel supply apparatus for supplying fuel to an internal combustion engine,

- 2 said fuel supply apparatus comprising
- at least one fuel valve (16) for introducing the fuel into the jaternal
- 4 combustion engine;
- 5 a fuel tank (2);
- a fuel line (10) connected to the fuel tank (2)
- 7 a first fuel pump (6) for supplying the fuel from the fuel tank (2) to the fuel
- 8 line (10);
- a second fuel pump (12) for supplying the fuel from the fuel line (10) via a
- pressurized line (14,42,44) to said at least one fuel valve (16) so that the fuel is
- introduced into the internal combustion engine at least indirectly;
- a fuel return line (22) connecting the fuel line (10) to the fuel tank (2) for
- 4 13 fuel return;

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- a pressure regulator valve (26) arranged in the fuel return line (22);
- a shut off valve (30) arranged in the fuel return line (22) hydraulically in
- series with the pressure regulator valve (26); and
- a fuel/scavenger line (60) conducts the fuel back to the fuel tank (2)
- partially through the second fuel pump (12) and partially through a hydraulic
- resistarce means (61, 62, 66, 70, 72, 76, 84).
  - 2. The fuel supply apparatus as defined in claim 1, further comprising means (20,

- 1 7. The fuel supply apparatus as defined in claim 1, further comprising an
- 2 overpressure valve (7) connected in parallel hydraulically to the pressure
- 3 regulator valve (26).

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8. The fuel supply apparatus as defined in claim 1, further comprising a circulator

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- 2 line (52,52') connecting the pressurized line (14, 42, 44) to the fuel line (10) via a
- 3 control valve (50,50').
- 9. The fuel supply apparatus as defined in claim 8, wherein the circulator
- 2 line(52,52') is connected to the fuel line (10) by means of a hydraulic resistance
- 3 element (53,74,80).
- 1 10. The fuel supply apparatus as defined in claim 8, wherein the circulator line
- 2 (52,52') is connected to the fuel line (10) by means of a check valve (53,80).
  - 11. The fuel supply apparatus as defined in claim 10, further comprising a throttle
- 2 (74) connected in parallel hydraulically to the check valve.
- 12. The fuel supply apparatus as defined in claim 3, wherein the second fuel
- 2 pump (12) has a low pressure side (12n) and the fuel scavenger line (60) is
- 3 connected at a highest position thereof to said low pressure side (12n) of the fuel
- 4 scavenger line (60) and branches from the pump housing (12g).
- 1 13. The fuel supply apparatus as defined in claim 8, wherein the second fuel
- 2 pump (12) has a compression chamber (12k) and the circulator line (52') extends
- 3 from the compression chamber (12k).
- 1 14. The fuel supply apparatus as defined in claim 1, further comprising a leakage

- 2 line (88) connecting the second fuel pump (12) to the fuel tank (2).
- 1 15. The fuel supply apparatus as defined in claim 14, wherein the leakage line
- 2 (88) opens into the return line (22) upstream of the shut off valve (30).